PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

То:		PCT				
see form PCT/ISA/220 Applicant's or agent's file reference		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)				
see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below				
International application No. PCT/EP2004/051191	International filing date (d 22.06.2004	day/month/year) Priority date (day/month/year) 26.06.2003				
International Patent Classification (IPC) or both national classification and IPC H04Q11/04						
Applicant MARCONI COMMUNICATIONS SPA						
1. This opinion contains indications relating to the following items: □ Box No. I Basis of the opinion □ Box No. II Priority □ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention □ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement □ Box No. VI Certain documents cited □ Box No. VII Certain defects in the international application □ Box No. VIII Certain observations on the international application □ Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
For further details, see notes to Form PCT/ISA/220.						

Name and mailing address of the ISA:

Authorized Officer

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Fleckinger, C

Telephone No. +31 70 340-3416



10/562714

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/051191

IAP20 RSC' L PETAPTO 23 DEC 2005

	Box N	o. I Basis of the opinion			
1.	 With regard to the language, this opinion has been established on the basis of the international application the language in which it was field, unless otherwise indicated under this item. 				
	la	nis opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).			
2.	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a. type of material:					
		a sequence listing			
		table(s) related to the sequence listing			
	b. format of material:				
		in written format			
		in computer readable form			
	c. time	of filing/furnishing:			
		contained in the international application as filed.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority for the purposes of search.			
3.	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto is been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.			
4.	. Additional comments:				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-19

No: Claims

Inventive step (IS)

Yes: Claims

1-19

No: Claims

Industrial applicability (IA)

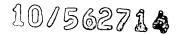
Yes: Claims

1-19

No: Claims

2. Citations and explanations

see separate sheet



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/051191

IAP20 Residentation 23 DEC 2005

Re Item V.

- The following documents are referred to in this communication:D1: EP 1 001 648 A (LUCENT TECHNOLOGIES INC) 17 May 2000 (2000-05-17)
- 2 Document D1, which is considered to represent the most relevant state of the art, discloses (the references in parenthesis applying to this document):

A switching network (Fig.1) for switching frames of data ("data block"), in defined timeslots, of a crossconnection request between a desired input and desired output, comprising

- an input stage consisting of a plurality of switching matrices (140-148),
- an intermediate stage consisting of a plurality of switching matrices (150-158), and
- an output stage consisting of a plurality of switching matrices (160-168), each input stage switching matrix having a link to each intermediate stage switching matrix (Fig.1) and each intermediate switching matrix having a link to each output stage (Fig.1),

the switching network including means for routing each time-slot ("bit pack") of each frame through the switching matrices.

The subject-matter of independent claim 1 differs from the switching network of D1 in that in claim 1, the switching network includes means for routing each time-slot of each frame independently through the switching matrices.

- 3 The subject-matter of claim 1 is therefore novel (Article 33(2) PCT). The problem to be solved by the present invention may be regarded as: how to increase the capacity of the switching network without unduly increasing the costs.
- 4 The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: In D1, the time-slots of each frame are evenly distributed to the second stage switching matrices to optimize the size and speed of implementation. D1 leads therefore the skilled person away from the solution proposed in claim 1 where each time-slot of each frame is routed independently.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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The skilled person would therefore not arrive at the solution proposed by the invention either using D1 alone or in combination with any other prior knowledge.

- 5 The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 15, which therefore is also considered inventive.
- 6 Claims 2-14 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
- 7 Claims 16-19 are dependent on claim 15 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL APPLICATION AS PUBLISHED OR REPUBLISHED To:

COLLIER, Ian Marconi Intellectual Property Crompton Close Basildon Essex SS14 3BA ROYAUME-UNI

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Date of mailing (day/month/year) 06 January 2005 (06.01.2005)							
Applicant's or agent's file reference P/63769/X18		IMPORTANT NOTICE					
International application No. PCT/EP2004/051191			Priority date (day/month/year) 26 June 2003 (26.06.2003)				
Applicant MARCONI COMMUNICATIONS SPA et al							
The International Bureau transmits herewith the following documents:							
copy of the international application as published by the International Bureau on 06 January 2005 (06.01.2005) under No. WO 2005/002276							
copy of international application as republished by the International Bureau on under No. WO For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (as the case may be) on the front page of the attached document.							
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Authorized officer

Yolaine Cussac

Facsimile No.+41 22 740 14 35

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